

From: Sgraves@TechLawInc.com
Sent: 2/29/2012 5:42:16 PM
To: "Kelley Chase" <Chase.Kelley@epamail.epa.gov>
CC: "Richard Rupert" <Rupert.Richard@epamail.epa.gov>
Subject: RE: Dimock - Residential Well HW-47

Your welcome. I would surmise that a sample was not collected from the reverse osmosis system as this would have been a lower flow sample and the residents most-likely would have pointed it out. Don't know if that helps or not. Also, in one of the pictures, there is a separate faucet installed next to the main faucet in the sink basin. It looks like what a typical carbon filtration system installed under the sink would look like. See attached picture.

Suddha Graves
TechLaw, Inc.

From: Kelley Chase [mailto:Chase.Kelley@epamail.epa.gov]
Sent: Wednesday, February 29, 2012 5:36 PM
To: Graves, Suddha
Cc: Richard Rupert
Subject: RE: Dimock - Residential Well HW-47

Thanks Suddha. Just spoke with Fetzer - he confirmed that Cabot indicated that they did install an RO unit. Not sure when this was done. But it appears that this was prior to our sampling effort. I hope to get more info when I meet with the owner tomorrow. I will be sure to find out where the RO unit is located. Will let you know what I find out.

Thanks again- Kelley
From: "Graves, Suddha" <Sgraves@TechLawInc.com>
To: Kelley Chase/R3/USEPA/US@EPA
Cc: Richard Rupert/R3/USEPA/US
Date: 02/29/2012 03:40 PM
Subject: RE: Dimock - Residential Well HW-47

Kelley,

Yes a sample was collected at the pressure tank and at the kitchen sink. I have no records which document the presence of a reverse osmosis unit at the [REDACTED] residence (HW-47). The only additional info I have to add, and don't know if they are directly relevant are:

- There is an old well located near the house. This old well was not sampled.
- There was a water softener system in the basement. The "wellhead" sample was collected prior to this water softener system, while the "kitchen tap" sample was collected after this system.
- The residents noted that there is a sulfur smell present during their showers.
- The kitchen tap sample had a lot of effervescence and a slight sulfur odor.
- A propane tank (located outside of the home) was being filled during stabilization of the well.
- There is a small open drain in the basement.

The only reverse osmosis (RO) unit that I have documented is from HW-39 ([REDACTED] residence), which was sampled on 2/3/12. It was reported to have a low-flow faucet (1 gal/hour). A total metals sample (HW39-RO) was collected from this location (HW-39).

May I ask where you received the info that led you to believe the [REDACTED] family had a RO system?

Suddha Graves
TechLaw, Inc.

From: Kelley Chase [mailto:Chase.Kelley@epamail.epa.gov]
Sent: Wednesday, February 29, 2012 12:34 PM
To: Graves, Suddha
Cc: Richard Rupert
Subject: RE: Dimock - Residential Well HW-47

Hi Suddha -

I will be meeting with the Ex. 6 - Personal Privacy family tomorrow night along with several health professionals from ATSDR to answer questions about the high arsenic results. I wanted to double check a few things with you beforehand. I am guessing you will need to take another look at the sampler's logbook. I understand that we collected a sample at the kitchen sink and at the pressure tank. Is this correct? I have recently learned that the home has an reverse osmosis unit. This was not noted at the time of the original survey (which I conducted) or from what I can tell from your earlier e-mail - from the logbook. Is that correct? I want to be sure that I understand whether we collected a sample after the RO unit (if it exists)? It may have been installed to treat only drinking water from a separate low flow faucet (not the kitchen tap).

Thanks !!!

From: "Graves, Suddha" <Sgraves@TechLawInc.com>
To: Kelley Chase/R3/USEPA/US@EPA
Date: 02/15/2012 10:42 AM
Subject: RE: Dimock - Residential Well HW-47

Kelley,

HW47 was sampled on 2/8/12. The house was built in 1798 and is reported to be the oldest house in Dimock. Well is reported to be 450 feet deep, with 178 ft of casing, and it is unknown what the depth of the pump is. Water had a slight sulfur smell and was slightly effervescent. There was a pressure tank and water softener in basement. It was noted that there was sewer gas at the home.

The following screening results were collected:

Wellhead

Alkalinity 193 mg/L
Dissolved Sulfide 0.087 mg/L
Ferrous Iron 2.71 mg/L
Turbidity 1.4 NTU

Kitchen Sink

Alkalinity 194 mg/L
Dissolved Sulfide 0.038 mg/L
Ferrous Iron 0.01 mg/L
Turbidity 0.22 NTU

If you want, I have photos and scanned copies of logbooks and field data sheets.

Thanks,
Suddha Graves
TechLaw, Inc.

From: Kelley Chase [mailto:Chase.Kelley@epamail.epa.gov]
Sent: Wednesday, February 15, 2012 8:44 AM
To: Graves, Suddha
Subject: Dimock - Residential Well HW-47

Hi Suddha -

I am sending this now - so that I don't forget to ask you later.

Based on the preliminary results - we have elevated arsenic (90s ug/L) in the samples collected from HW-47.

From the well survey info collected by EPA we know the following:

- well approx 450' deep, well approx 40 yrs old, original pump
- have a softener and chlorinator (installed in the 70s)
- there are also 2 other wells on the property (one deep which is used for irrigation and one shallow hand dug well)

I would appreciate it if you could check the field logs for any additional information noted by the sample team. It would be helpful if I could get this info by noon.

Thanks - Kelley - DSCN0147.JPG